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11	1	Klevans.in. and emulat\$3 near3 stub	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 13:47
L2	1	(emulat\$3 adj stub).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 13:53
L3	2	"6885677".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 13:57
L4	1	network adj simulator and emulat\$3 adj stub	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 13:58
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L8	1	network adj simulator same stub	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 14:43
L9	o	703/?.ccls. and ((emulat\$ or simulat\$3) near3 stub)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 14:36

L10	0	709/?.ccls. and ((emulat\$ or simulat\$3) near3 stub)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 14:36
L11	0	714/?.ccls. and ((emulat\$ or simulat\$3) near3 stub)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 14:36
L12	32	714/?.ccls. and (stub)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 14:42
L13	17	L12 and @ad<"20000505"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 14:39
L14	0	L12 and @ad<"20000505" and (network adj simulat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 14:40
L15	Ö	L12 and @ad<"20000505" and (network same simulat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 14:44
L16	0	709/?.ccls. and (stub)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/10 14:43
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L20	0	717/?.ccls. and (stub)	US-PGPUB; USPAT;	OR	OFF	2005/08/10 15:06
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Realistic Large-Scale Online Network Simulation

Xin Liu, Andrew A. Chien

November 2004 Proceedings of the 2004 ACM/IEEE conference on Supercomputing

Full text available: pdf(166.29 KB) Additional Information: full citation, abstract

Large-scale network simulation is an important technique for studying the dynamic behavior of networks, network protocols, and emerging classes of distributed application (e.g. Grid, peer-to-peer, etc.) Large-scale and realism are two critical requirements for network simulations of Grid application studies. Our work here extends previous efforts in three key ways. First, we study networks 100x larger than in our previous studies (20,000 routers). Second, at this scale, we study realistic networ ...

2 Cluster resource management: An integrated experimental environment for distributed systems and networks



Brian White, Jay Lepreau, Leigh Stoller, Robert Ricci, Shashi Guruprasad, Mac Newbold, Mike Hibler, Chad Barb, Abhijeet Joglekar

December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue SI

Full text available: pdf(2.10 MB)

Additional Information: full citation, abstract, references

Three experimental environments traditionally support network and distributed systems research: network emulators, network simulators, and live networks. The continued use of multiple approaches highlights both the value and inadequacy of each. Netbed, a descendant of Emulab, provides an experimentation facility that integrates these approaches, allowing researchers to configure and access networks composed of emulated, simulated, and wide-area nodes and links. Netbed's primary goals are ease ...

Peer-to-peer infrastructure: Scalability and accuracy in a large-scale network emulator Amin Vahdat, Ken Yocum, Kevin Walsh, Priya Mahadevan, Dejan Kostić, Jeff Chase, David



December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue SI

Full text available: pdf(1.64 MB)

Additional Information: full citation, abstract, references

This paper presents ModelNet, a scalable Internet emulation environment that enables researchers to deploy unmodified software prototypes in a configurable Internet-like environment and subject them to faults and varying network conditions. Edge nodes running user-specified OS and application software are configured to route their packets through a set of ModelNet core nodes, which cooperate to subject the traffic to the bandwidth, congestion constraints, latency, and loss profile of a target ne ...

Simulation: A system for simulation, emulation, and deployment of heterogeneous sensor networks



Lewis Girod, Thanos Stathopoulos, Nithya Ramanathan, Jeremy Elson, Deborah Estrin, Eric Osterweil, Tom Schoellhammer

November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems

Full text available: pdf(345.48 KB) Additional Information: full citation, abstract, references, index terms

Recently deployed Wireless Sensor Network systems (WSNs) are increasingly following <i>heterogeneous</i> designs, incorporating a mixture of elements with widely varying capabilities. The development and deployment of WSNs rides heavily on the availability of simulation, emulation, visualization and analysis support. In this work, we develop tools specifically to support <i>heterogeneous</i> systems, as well as to support the measurement and visualization of <i>operational ...

**Keywords:** EmStar, TinyOS, real code simulation, sensor networks

Technical papers: A solver for the network testbed mapping problem Robert Ricci, Chris Alfeld, Jay Lepreau



April 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 2

Full text available: ddf(383,46 KB) Additional Information: full citation, abstract, references, citings

Network experiments of many types, especially emulation, require the ability to map virtual resources requested by an experimenter onto available physical resources. These resources include hosts, routers, switches, and the links that connect them. Experimenter requests, such as nodes with special hardware or software, must be satisfied, and bottleneck links and other scarce resources in the physical topology should be conserved when physical resources are shared. In the face of these constraint ...

Fast detection of communication patterns in distributed executions



Thomas Kunz, Michiel F. H. Seuren November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

Conference abstracts



January 1977 Proceedings of the 5th annual ACM computer science conference

Full text available: mpdf(3.14 MB) Additional Information: full citation, abstract, index terms

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

Higher Bandwidth X



#### J. Danskin

### October 1994 Proceedings of the second ACM international conference on Multimedia

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(701.71 KB) <u>terms</u>

Network bandwidth has always been a key issue for multimedia protocols. Many potential users of networked multimedia protocols will continue to have low bandwidth network connections for some time: copper wire ISDN, infra-red, cellular modems, etc.. Compression provides potential relief for users of slow networks by increasing effective bandwidth. Higher Bandwidth X (HBX) introduces a new technique, based on arithmetic coding and statistical modeling, for compressing structured data. Applie ...

Personal distributed computing: the Alto and Ethernet software **Butler Lampson** 



January 1986 Proceedings of the ACM Conference on The history of personal workstations

Full text available: pdf(3.00 MB)

Additional Information: full citation, abstract, references, citings, index terms

The personal distributed computing system based on the Alto and the Ethernet was a major effort to make computers help people to think and communicate. The paper describes the complex and diverse collection of software that was built to pursue this goal, ranging from operating systems, programming environments, and communications software to printing and file servers, user interfaces, and applications such as editors, illustrators, and mail systems.

10 Spinach: a liberty-based simulator for programmable network interface architectures Paul Willmann, Michael Brogioli, Vijay S. Pai



June 2004 ACM SIGPLAN Notices, Proceedings of the 2004 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems, Volume 39 Issue 7

Full text available: pdf(336.99 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents Spinach, a new simulator toolset specifically designed to target programmable network interface architectures. Spinach models both system components that are common to all programmable environments (e.g., ALUs, control and data paths, registers, instruction processing) and components that are specific to the embedded systems and network interface environments (e.g., software-controlled scratchpad memory, hardware assists for DMA and medium access control). Spinach is built on ...

Keywords: embedded systems, programmable network interfaces, simulation

11 Modeling methodology: Parallel execution of a seguential network simulator Kevin G. Jones, Samir R. Das



December 2000 Proceedings of the 32nd conference on Winter simulation

Full text available: pdf(72,42 KB)

Additional Information: full citation, abstract, references, citings

Parallel discrete event simulation (PDES) techniques have not yet made a substantial impact on the network simulation community because of the need to recast the simulation models using a new set of tools. To address this problem, we present a case study in transparently parallelizing a widely used network simulator, called ns. The use of this parallel ns does not require the modeler to learn any new tools or complex PDES techniques. The paper describes our approach and design choi ...

12

Applying parallel discrete event simulation to network emulation



Rob Simmonds, Russell Bradford, Brian Unger

#### May 2000 Proceedings of the fourteenth workshop on Parallel and distributed simulation

Full text available: pdf(767.64 KB)

Additional Information: full citation, abstract, references, citings, index

The simulation of wide area computer networks is one area where the benefits of parallel simulation have been clearly demonstrated. Here we present a description of a system that uses a parallel discrete event simulator to act as a high speed network emulator. With this, real Internet Protocol (IP) traffic generated by application programs running on user workstations can interact with modelled traffic in the emulator, thus providing a controlled test environment for distributed app ...

Keywords: Internet protocol (IP), computer network emulation, conservative protocol, critical channel traversing, parallel discrete event simulation (PDES), real-time simulation

13 Improving Scalability of Network Emulation through Parallelism and Abstraction Cameron Kiddle, Rob Simmonds, Brian Unger



Full text available: pdf(208.63 KB) Additional Information: full citation, abstract

One approach to network emulation involves simulating a virtual network with a real-time network simulator and providing an I/O interface that enables interaction between real hosts and the virtual network. This allows real protocols and applications to be tested in a controlled and repeatable environment. To reflect conditions of large networks such as the Internet it is important that the emulation environment be scalable. This paper examines improvements in scalability of the virtual network ...

Keywords: Scalable Network Emulation, Parallel Discrete Event Simulation, Simulation Abstraction, Fluid Simulation

14 A new instructional operating system

David A. Holland, Ada T. Lim, Margo I. Seltzer

February 2002 ACM SIGCSE Bulletin, Proceedings of the 33rd SIGCSE technical symposium on Computer science education, Volume 34 Issue 1

Full text available: Republic Additional Information: full citation, abstract, references, citings

This paper presents a new instructional operating system, OS/161, and simulated execution environment, System/161, for use in teaching an introductory undergraduate operating systems course. We describe the new system, the assignments used in our course, and our experience teaching using the new system.

15 Wireless amd Mobile Networks Performance: EMWIN:: emulating a mobile wireless network using a wired network

Pei Zheng, Lionel M. Ni

September 2002 Proceedings of the 5th ACM international workshop on Wireless mobile multimedia

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(620.08 KB)

Test and performance evaluation of protocols and algorithms in mobile wireless networks is known to be challenging. Due to the highly varying characteristics of mobile wireless networks, one cannot merely rely on either network simulation or a testbed. Network emulation provides a controllable and reproducible environment, yet it generally lacks the support for the emulation of network topology and mobility, which are extremely critical in





mobile wireless network research. We introduce EMWIN, a ...

Keywords: mobile wireless network, mobility, network emulation, performance evaluation

16 Towards target-level testing and debugging tools for embedded software Harry Koehnemann, Timothy Lindquist



October 1993 Proceedings of the conference on TRI-Ada '93

Full text available: pdf(1.28 MB)

Additional Information: full citation, references, index terms

17 Computer networks (CN): EmuNET: a real-time network emulator Ayman Kayssi, Ali El-Haj-Mahmoud



March 2004 Proceedings of the 2004 ACM symposium on Applied computing

Full text available: pdf(691.99 KB) Additional Information: full citation, abstract, references, index terms

New protocols and network applications must be extensively tested before deployment on the Internet. In this paper, we describe the design and implementation of EmuNET, a lightweight, portable, configurable, and extendable network emulator, which can be used to emulate a wide variety of network characteristics and conditions inside a laboratory environment. Protocols and applications can be tested, without modification, directly on top of the emulated network. The emulator can be used to test pr ...

Keywords: delay, jitter, network emulation, queuing disciplines

18 NeuroAnimator: fast neural network emulation and control of physics-based models Radek Grzeszczuk, Demetri Terzopoulos, Geoffrey Hinton



July 1998 Proceedings of the 25th annual conference on Computer graphics and interactive techniques

Full text available: pdf(28.26 MB) Additional Information: full citation, references, citings, index terms

Keywords: backpropagation, dynamical systems, learning, motion control, neural networks, physics-based animation, simulation

19 The NetWire emulator: a tool for teaching and understanding networks Enrico Carniani, Renzo Davoli



June 2001 ACM SIGCSE Bulletin, Proceedings of the 6th annual conference on Innovation and technology in computer science education, Volume 33 Issue 3

Full text available: pdf(485.43 KB)

Additional Information: full citation, abstract, references, citings, index

The evolution of the parallel computing theory has shown over years the need for complex and reliable emulation tools for teaching, learning and developing new distributed algorithms in a realistic network environment. NetWire[emu] is a distributed architecture designed for educational and research purposes which provides a synthetic and realistic network environment that may be used to teach and learn parallel algorithms (or parallel operating systems) as well as to research and develop ...

Keywords: TCL programmable, distributed simulation, graphical shell, network emulation, physical characteristics, synchronous operation

20 SENS: A Sensor, Environment and Network Simulator

Sameer Sundresh, Wooyoung Kim, Gul Agha



Full text available: pdf(203.24 KB) Additional Information: full citation, abstract, citings

Recent advances in micro electro-mechanical systems and VLSI lithography have enabled the miniaturization of sensors and controllers. Such minitiarization facilitates the deployment of large-scale wireless sensor networks(WSNs). However, the considerable cost of deployingand maintaining large-scale WSNs for experimental purposesmakes simulation useful in developing dependableand portable WSN applications. SENS is a customizablesensor network simulator for WSN applications, consisting of interchangea ...

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Last Name = KLEVANS First Name = RICHARD

Application#	Patent#	Status	Date Filed	Title	Inventor Name
60202190	Not Issued	159	05/05/2000	INTERNET PROTOCOL TRANSPORT	KLEVANS, RICHARD L
60124063	Not Issued	159		IMPLEMENTATION OF MULTIPROTOCOL LABEL SWITCHING ROUTERS	KLEVANS, RICHARD L.
09849010	Not Issued	080		METHOD AND SYSTEM FOR HARDWARE SIMULATION	KLEVANS, RICHARD L.
<u>09674315</u>	6885677	150		MULTIPROTOCOL LABEL SWITCHING ROUTERS	KLEVANS, RICHARD L.

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